

8. (Amended) The coherent light source according to claim 1, further comprising:

a diffraction grating; and

a photo-detector,

wherein the photo-detector detects the fundamental light diffracted by the diffraction grating.

13. (Amended) The coherent light source according to claim 1, further comprising:

a cesium (Cs) gas cell; and

a photo-detector,

wherein the photo-detector detects the fundamental light that has passed through the Cs gas cell.

15. (Amended) A recording/reproducing apparatus comprising:

the coherent light source according to claim 1,

wherein the coherent light source is adjusted to have an optimum wavelength that meets the Bragg conditions in reproducing hologram information recorded on a medium.

16. (Amended) A recording/reproducing apparatus comprising:

the coherent light source according to claim 1 and

an optical system for focusing light emitted from the coherent light source on an information medium.

Please add the following new claims:

17. (New) The coherent light source according to claim 5, wherein the wavelength of the fundamental light that has passed through the wavelength converting device is detected so as to be controlled to the desired wavelength.

18. (New) The coherent light source according to claim 5, wherein a means for separating the fundamental light and the harmonic light and detecting only the fundamental light is provided on an optical path through which light generated by wavelength conversion with the wavelength converting device travels.

19. (New) The coherent light source according to claim 5, further comprising:

a diffraction grating; and

a photo-detector,

wherein the photo-detector detects the fundamental light diffracted by the diffraction grating.

20. (New) The coherent light source according to claim 5, further comprising:

a cesium (Cs) gas cell; and

a photo-detector,

wherein the photo-detector detects the fundamental light that has passed through the Cs gas cell.

21. (New) A recording/reproducing apparatus comprising:

the coherent light source according to claim 5,

wherein the coherent light source is adjusted to have an optimum wavelength that meets the Bragg conditions in reproducing hologram